

Attorney Docket: 01098  
U.S. Application No.: 10/743,358 Examiner: Loo Art Unit: 2609  
Response to September 10, 2007 Office Action

**AMENDMENT TO THE CLAIMS**

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[c01] (Currently Amended) A method of providing communications services, comprising the steps of:

logically bonding a first physical medium to a subscriber's communications device;

connecting a second physical medium to the subscriber's communications device;

connecting the second physical medium to other subscriber's communications devices;

sharing the second physical medium amongst the subscriber and the other subscribers;

receiving a request for communications service from the subscriber's communications device;

when the requested communications service exceeds an available bandwidth of the first physical medium, then temporarily logically bonding the second physical medium to the subscriber's communications device to provide additional bandwidth, such that first physical medium and the second physical medium share a session of information;

providing the requested communications service via the logically bonded first physical medium and the temporarily logically bonded second physical medium; and

when the additional bandwidth is no longer needed, removing the temporary logical bonding of the second physical medium; and

reverting the second physical medium to its shared configuration, thus allowing another subscriber to receive increased bandwidth when required

~~transmitting signals to a destination via a first physical medium; and~~

~~transmitting signals to the destination via a second physical medium, the second physical medium dynamically shared amongst multiple destinations to provide additional bandwidth.~~

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- [c02] (Currently Amended) A method according to claim 1, wherein logically bonding the first physical medium comprises logically bonding the step of transmitting the signals to the destination comprises transmitting the signals via a twisted pair.
- [c03] (Currently Amended) A method according to claim 1, wherein logically bonding the first physical medium comprises logically bonding the step of transmitting the signals to the destination comprises transmitting the signals via a coaxial cable.
- [c04] (Currently Amended) A method according to claim 1, wherein logically bonding the first physical medium comprises logically bonding the step of transmitting the signals to the destination comprises transmitting the signals via a fiber optic cable.
- [c05] (Currently Amended) A method according to claim 1, wherein providing the requested communications service comprises the step of transmitting the signals to the destination comprises transmitting the signals via at least one of i) a combination of a twisted pair and a coaxial cable, ii) a combination of a twisted pair and a fiber optic cable, and iii) a combination of a coaxial cable and a fiber optic cable.
- [c06] (Currently Amended) A method according to claim 1, further comprising temporarily logically bonding the step of transmitting the signals to the destination via additional physical media, each additional physical media dynamically shared amongst the multiple destinations to provide additional bandwidth.
- [c07] (Currently Amended) A method according to claim 1, providing the requested communications service comprises transmitting signals via a shared twisted pair further comprising the step of logically bonding the second physical medium and the first physical medium when transmitting the signals to the destination, such that first physical medium and the second physical medium share the same session of information.

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[c08] (Currently Amended) A method according to claim 1, further comprising the step of temporarily logically bonding  $n$  physical media to the first physical medium when transmitting the signals to the destination, such that first physical medium and the  $n$  physical media share the same session of information.

[c09] (Currently Amended) A method of providing communications services, comprising the steps of:

configuring a first twisted pair to provide Digital Subscriber Line service to a destination;

configuring a second twisted pair for shared Digital Subscriber Line service amongst the destination and another destination;

receiving a request for communications service;

transmitting digital subscriber line signals to the destination via the first twisted pair;

when the requested communications service exceeds an available bandwidth of the first twisted pair, then temporarily logically bonding the second twisted pair to the destination to provide additional bandwidth;

providing the requested communications service via the logically bonded first twisted pair and the temporarily logically bonded second twisted pair; and

when the additional bandwidth is not needed, removing the temporary logical bonding of the second twisted pair; and

reverting the second twisted pair to its shared configuration, thus allowing the another destination to receive increased bandwidth when required

transmitting Digital Subscriber Line signals to a destination via a first twisted pair; and

transmitting Digital Subscriber Line signals to the destination via a second twisted pair, the second twisted pair shared amongst the destination and another destination, the second twisted pair providing additional bandwidth.

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[c10] (Currently Amended) A method according to claim 9, further comprising ~~the step of logically bonding the second twisted pair and the first twisted pair when transmitting the digital subscriber signals to the destination, such that first twisted pair and the second twisted pair share~~ sharing the same session of information.

[c11] (Currently Amended) A method according to claim 9, further comprising ~~the step of connecting the second twisted pair and the first twisted pair to the destination, such that first twisted pair and the second twisted pair share~~ the same session of information.

[c12] (Currently Amended) A method according to claim 9, further comprising ~~the step of transmitting the digital subscriber line signals to the destination via a third twisted pair, the third twisted pair shared amongst the destination and the another destination, the third twisted pair providing~~ more additional bandwidth.

[c13] (Currently Amended) A method according to claim 9, further comprising ~~the step of instructing a network device to logically bond the second twisted pair and the first twisted pair when transmitting the digital subscriber line signals to the destination, such that first twisted pair and the second twisted pair share~~ the same session of information.

[c14] (Currently Amended) A method according to claim 9, further comprising ~~the step of logically bonding  $n$  twisted pairs to the first twisted pair when transmitting the digital subscriber line signals to the destination, such that first twisted pair and the  $n$  twisted pairs share~~ the same session of information.

[c15] (Currently Amended) A method of providing communications services, comprising ~~the steps of:~~

receiving a request for communications services from a client communications device;

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logically bonding a first physical medium to the client communications device;  
and

temporarily logically bonding a second physical medium to the client communications device, the second physical medium being dynamically shared amongst multiple client communications devices to provide additional bandwidth when required;  
and

providing the communications services via the logically bonded first physical medium and the second physical medium; and

when the additional bandwidth is no longer needed, reverting the second physical medium reverts to its shared configuration, thus allowing another customer to receive increased additional bandwidth when required.

[c16] (Currently Amended) A method of providing communications services, comprising the steps of:

receiving a request for communications service;

downloading media content in response to the requested communications service;

when the requested communications service exceeds an available bandwidth of a first physical medium, then temporarily logically bonding a second physical medium to provide additional bandwidth;

downloading the media content via the first physical medium and the temporarily logically bonded second physical medium; and

when the additional bandwidth is no longer needed, reverting the second physical medium to a shared configuration, thus allowing another requestor to receive increased bandwidth when required

~~transmitting signals to a destination via a first physical medium;~~

~~transmitting signals to the destination via a second physical medium, the second physical medium dedicated to provide additional bandwidth; and~~

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~~transmitting signals to the destination via additional n physical media, the n physical media dedicated to provide additional bandwidth.~~